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1 [Computational algebra and algebraic curves](#)

[Tanush Shaska](#)

December 2003 **SIGSAM Bulletin** , Volume 37 Issue 4

Publisher: ACM

Full text available: [Pdf](#) (105.33 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

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The development of computational techniques in the last decade has made possible to attack some classical problems of algebraic geometry. In this survey, we briefly describe some open problems related to algebraic curves which can be approached from ...

2 [Intersecting quadrics: an efficient and exact implementation](#)

[S. Lazard](#), [L. M. Peñaranda](#), [S. Petitjean](#)

June 2004 **SCG '04**: Proceedings of the twentieth annual symposium on Computational geometry

Publisher: ACM

Full text available: [Pdf](#) (411.98 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

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We present the first complete, exact and efficient C++ implementation of a method for parameterizing the intersection of two implicit quadrics with integer coefficients of arbitrary size. It is based on the near-optimal algorithm recently introduced ...

Keywords: C++ implementation, experimental analysis, intersection of quadrics

3 [The NP-completeness column](#)

[David S. Johnson](#)

July 2005 **Transactions on Algorithms (TALG)** , Volume 1 Issue 1

Publisher: ACM

Full text available: [Pdf](#) (153.13 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

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This is the 24th edition of a column that covers new developments in the theory of NP-completeness. The presentation is modeled on that which M. R. Garey and I used in our book "Computers and Intractability: A Guide to the Theory of NP-Completeness," ...

Keywords: NP-completeness, coding theory, lattice bases, open problems, perfect graphs, primality testing


4 ANTS VI: algorithmic number theory symposium poster abstracts



Ilias Kotsireas, Emil Volcheck

September 2004 **SI GSAM Bulletin**, Volume 38 Issue 3

Publisher: ACM





Full text available:  Pdf (435.21 KB) [Additional Information](#): [full citation](#), [abstract](#), [references](#)

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The Algorithmic Number Theory Symposium (ANTS) meetings are held bianually since 1994, and have become the premier international forum for the presentation of new research in Computational Number Theory. Previous ANTS conferences have been held as follows: ...

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